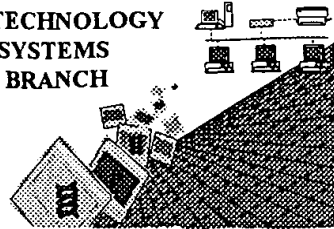


BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/937,100
Source: PCR/09
Date Processed by STIC: 2/8/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

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- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER**
VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebs/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

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PCT09

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/937,100

DATE: 02/08/2002
 TIME: 11:34:17

Input Set : A:\pto.vsk.txt
 Output Set: N:\CRF3\02082002\I937100.raw

PPS 3-4

OK
 OK

3 <110> APPLICANT: Biovation Limited
 5 <120> TITLE OF INVENTION: Protein Isolation and Analysis
 7 <130> FILE REFERENCE: 0099176-Bzgs
 9 <140> CURRENT APPLICATION NUMBER: US/09/937,100
 10 <141> CURRENT FILING DATE: 2001-01-07
 12 <150> PRIOR APPLICATION NUMBER: 9906551.8 GB
 13 <151> PRIOR FILING DATE: 1999-03-23
 15 <150> PRIOR APPLICATION NUMBER: 9907057.5 GB
 16 <151> PRIOR FILING DATE: 1999-03-29
 18 <150> PRIOR APPLICATION NUMBER: 9907641.6 GB
 19 <151> PRIOR FILING DATE: 1999-04-06
 21 <150> PRIOR APPLICATION NUMBER: 9914874.4 GB
 22 <151> PRIOR FILING DATE: 1999-06-28
 24 <150> PRIOR APPLICATION NUMBER: 9915363.7 GB
 25 <151> PRIOR FILING DATE: 1999-07-02
 27 <150> PRIOR APPLICATION NUMBER: 9915677.0 GB
 28 <151> PRIOR FILING DATE: 1999-07-06
 30 <150> PRIOR APPLICATION NUMBER: 9916511.0 GB
 31 <151> PRIOR FILING DATE: 1999-07-14
 33 <150> PRIOR APPLICATION NUMBER: 9920503.1 GB
 34 <151> PRIOR FILING DATE: 1999-08-31
 36 <150> PRIOR APPLICATION NUMBER: 9922285.3 GB
 37 <151> PRIOR FILING DATE: 1999-09-21
 39 <160> NUMBER OF SEQ ID NOS: 69
 41 <170> SOFTWARE: PatentIn version 3.1
 43 <210> SEQ ID NO: 1
 44 <211> LENGTH: 24
 45 <212> TYPE: DNA
 46 <213> ORGANISM: Artificial Sequence
 48 <220> FEATURE:
 49 <223> OTHER INFORMATION: Oligonucleotide for an 8 amino acid barcode peptide
 51 <220> FEATURE:
 52 <221> NAME/KEY: CDS
 53 <222> LOCATION: (1)..(24)
 54 <223> OTHER INFORMATION:
 57 <220> FEATURE:
 58 <221> NAME/KEY: misc_feature
 59 <222> LOCATION: (1)..(1) /
 60 <223> OTHER INFORMATION: n=a,t,g,c
 63 <220> FEATURE:
 64 <221> NAME/KEY: misc_feature
 65 <222> LOCATION: (4)..(4)
 66 <223> OTHER INFORMATION: n=a,t,g,c

**Does Not Comply
 Corrected Diskette Needed**

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/937,100

DATE: 02/08/2002
 TIME: 11:34:17

Input Set : A:\pto.vsk.txt
 Output Set: N:\CRF3\02082002\I937100.raw

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69 <220> FEATURE:
70 <221> NAME/KEY: misc_feature
71 <222> LOCATION: (7)..(7)
72 <223> OTHER INFORMATION: n=a,t,g,c
75 <220> FEATURE:
76 <221> NAME/KEY: misc_feature
77 <222> LOCATION: (10)..(10)
78 <223> OTHER INFORMATION: n=a,t,g,c
81 <220> FEATURE:
82 <221> NAME/KEY: misc_feature
83 <222> LOCATION: (14)..(14)
84 <223> OTHER INFORMATION: k=g,t
87 <220> FEATURE:
88 <221> NAME/KEY: misc_feature
89 <222> LOCATION: (16)..(16)
90 <223> OTHER INFORMATION: v=a,g,c
93 <220> FEATURE:
94 <221> NAME/KEY: misc_feature
95 <222> LOCATION: (20)..(20)
96 <223> OTHER INFORMATION: n=a,g,t,c
99 <220> FEATURE:
100 <221> NAME/KEY: misc_feature
101 <222> LOCATION: (21)..(21)
102 <223> OTHER INFORMATION: v=a,g,c
105 <220> FEATURE:
106 <221> NAME/KEY: misc_feature
107 <222> LOCATION: (23)..(23)
108 <223> OTHER INFORMATION: n=a,t,g,c
111 <400> SEQUENCE: 1
112 nac ncc ngg ntg tkc vag gnv cnt
113 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
114 1 5
117 <210> SEQ ID NO: 2
118 <211> LENGTH: 8
119 <212> TYPE: PRT
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:
123 <221> NAME/KEY: misc_feature
124 <222> LOCATION: (1)..(1)
125 <223> OTHER INFORMATION: The 'Xaa' at location 1 stands for Asn, Asp, His, or Tyr.
127 <220> FEATURE:
128 <221> NAME/KEY: misc_feature
129 <222> LOCATION: (2)..(2)
130 <223> OTHER INFORMATION: The 'Xaa' at location 2 stands for Thr, Ala, Pro, or Ser.
132 <220> FEATURE:
133 <221> NAME/KEY: misc_feature
134 <222> LOCATION: (3)..(3)
135 <223> OTHER INFORMATION: The 'Xaa' at location 3 stands for Arg, Gly, or Trp.
137 <220> FEATURE:

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24

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/937,100

DATE: 02/08/2002
TIME: 11:34:17

Input Set : A:\pto.vsk.txt
Output Set: N:\CRF3\02082002\I937100.raw

138 <221> NAME/KEY: misc_feature
139 <222> LOCATION: (4)..(4)
140 <223> OTHER INFORMATION: The 'Xaa' at location 4 stands for Met, Val, or Leu.
142 <220> FEATURE:
143 <221> NAME/KEY: misc_feature
144 <222> LOCATION: (5)..(5)
145 <223> OTHER INFORMATION: The 'Xaa' at location 5 stands for Cys, or Phe.
147 <220> FEATURE:
148 <221> NAME/KEY: misc_feature
149 <222> LOCATION: (6)..(6)
150 <223> OTHER INFORMATION: The 'Xaa' at location 6 stands for Lys, Glu, or Gln.
152 <220> FEATURE:
153 <221> NAME/KEY: misc_feature
154 <222> LOCATION: (7)..(7)
155 <223> OTHER INFORMATION: The 'Xaa' at location 7 stands for Glu, Asp, Gly, Ala, or Val.
157 <220> FEATURE:
158 <221> NAME/KEY: misc_feature
159 <222> LOCATION: (8)..(8)
160 <223> OTHER INFORMATION: The 'Xaa' at location 8 stands for His, Arg, Pro, or Leu.
162 <220> FEATURE:
163 <223> OTHER INFORMATION: Oligonucleotide for an 8 amino acid barcode peptide
165 <220> FEATURE:
166 <221> NAME/KEY: misc_feature
167 <222> LOCATION: (1)..(1)
168 <223> OTHER INFORMATION: n=a,t,g,c
170 <220> FEATURE:
171 <221> NAME/KEY: misc_feature
172 <222> LOCATION: (4)..(4)
173 <223> OTHER INFORMATION: n=a,t,g,c
175 <220> FEATURE:
176 <221> NAME/KEY: misc_feature
177 <222> LOCATION: (7)..(7)
178 <223> OTHER INFORMATION: n=a,t,g,c
180 <220> FEATURE:
181 <221> NAME/KEY: misc_feature
182 <222> LOCATION: (10)..(10)
183 <223> OTHER INFORMATION: n=a,t,g,c
185 <220> FEATURE:
186 <221> NAME/KEY: misc_feature
187 <222> LOCATION: (14)..(14)
188 <223> OTHER INFORMATION: k=g,t
190 <220> FEATURE:
191 <221> NAME/KEY: misc_feature
192 <222> LOCATION: (16)..(16)
193 <223> OTHER INFORMATION: v=a,g,c
195 <220> FEATURE:
196 <221> NAME/KEY: misc_feature
197 <222> LOCATION: (20)..(20)
198 <223> OTHER INFORMATION: n=a,g,t,c

Seq. 2 is a peptide
sequence

Delete
←

This section and
that circled on p. 4
are for a
nucleotide sequence,
not a peptide
sequence

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/937,100

DATE: 02/08/2002
 TIME: 11:34:17

Input Set : A:\pto.vsk.txt
 Output Set: N:\CRF3\02082002\I937100.raw

200 <220> FEATURE:
 201 <221> NAME/KEY: misc_feature
 202 <222> LOCATION: (21)..(21)
 203 <223> OTHER INFORMATION: v=a,g,c
 205 <220> FEATURE:
 206 <221> NAME/KEY: misc_feature
 207 <222> LOCATION: (23)..(23)
 208 <223> OTHER INFORMATION: n=a,t,g,c
 210 <400> SEQUENCE: 2
 212 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 213 1 5
 216 <210> SEQ ID NO: 3
 217 <211> LENGTH: 14
 218 <212> TYPE: PRT
 219 <213> ORGANISM: Artificial Sequence
 221 <220> FEATURE:
 222 <223> OTHER INFORMATION: Linker peptide
 224 <400> SEQUENCE: 3
 226 Glu Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Val Asp
 227 1 5 10
 230 <210> SEQ ID NO: 4
 231 <211> LENGTH: 8
 232 <212> TYPE: PRT
 233 <213> ORGANISM: Artificial Sequence
 235 <220> FEATURE:
 236 <223> OTHER INFORMATION: Flag Epitope
 238 <400> SEQUENCE: 4
 240 Met Asp Tyr Lys Asp Asp Asp Lys
 241 1 5
 244 <210> SEQ ID NO: 5
 245 <211> LENGTH: 53
 246 <212> TYPE: DNA
 247 <213> ORGANISM: Artificial Sequence
 249 <220> FEATURE:
 250 <223> OTHER INFORMATION: Primer RD5' Flag
 252 <400> SEQUENCE: 5
 253 gcggatccca tatggactac aaagacgatg acgacaaaca ggtgcagctg cag 53
 256 <210> SEQ ID NO: 6
 257 <211> LENGTH: 35
 258 <212> TYPE: DNA
 259 <213> ORGANISM: Artificial Sequence
 261 <220> FEATURE:
 262 <223> OTHER INFORMATION: Primer RD3'
 264 <400> SEQUENCE: 6
 265 gcgaattcgt ggtggtggtg gtggtgtgac tctcc 35
 268 <210> SEQ ID NO: 7
 269 <211> LENGTH: 50
 270 <212> TYPE: DNA
 271 <213> ORGANISM: Artificial Sequence

delete

OK

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/937,100

DATE: 02/08/2002
 TIME: 11:34:18

Input Set : A:\pto.vsk.txt
 Output Set: N:\CRF3\02082002\I937100.raw

```

273 <220> FEATURE:
274 <223> OTHER INFORMATION: Fos1for
276 <400> SEQUENCE: 7
277 atggaattcc tcgagaccga caccctacag gcggaaaccg accagctgga      50
280 <210> SEQ ID NO: 8
281 <211> LENGTH: 50
282 <212> TYPE: DNA
283 <213> ORGANISM: Artificial Sequence
285 <220> FEATURE:
286 <223> OTHER INFORMATION: Fos80rev
288 <400> SEQUENCE: 8
289 tcgcgatttc ggtttgcagc gcggattttt cgtcttccag ctggtcggtt      50
292 <210> SEQ ID NO: 9
293 <211> LENGTH: 50
294 <212> TYPE: DNA
295 <213> ORGANISM: Artificial Sequence
297 <220> FEATURE:
298 <223> OTHER INFORMATION: Fos71for
300 <400> SEQUENCE: 9
301 aaaccgaaat cgcgaacctg ctgaaagaaa aagaaaagct ggagttcatc      50
304 <210> SEQ ID NO: 10
305 <211> LENGTH: 50
306 <212> TYPE: DNA
307 <213> ORGANISM: Artificial Sequence
309 <220> FEATURE:
310 <223> OTHER INFORMATION: Fos155rev
312 <400> SEQUENCE: 10
313 ggaagcttga attccgccgg acggtgtgcc gccaggatga actccagctt      50
316 <210> SEQ ID NO: 11
317 <211> LENGTH: 18
318 <212> TYPE: DNA
319 <213> ORGANISM: Artificial Sequence
321 <220> FEATURE:
322 <223> OTHER INFORMATION: primer Fos1 fS
324 <400> SEQUENCE: 11
325 atggaattcc tcgagacc      18
328 <210> SEQ ID NO: 12
329 <211> LENGTH: 18
330 <212> TYPE: DNA
331 <213> ORGANISM: Artificial Sequence
333 <220> FEATURE:
334 <223> OTHER INFORMATION: Primer Fos155 rS
336 <400> SEQUENCE: 12
337 ggaagcttga attccgcc      18
340 <210> SEQ ID NO: 13
341 <211> LENGTH: 28
342 <212> TYPE: DNA
343 <213> ORGANISM: Artificial Sequence
345 <220> FEATURE:

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→ Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/937,100

DATE: 02/08/2002

TIME: 11:34:19

Input Set : A:\pto.vsk.txt

Output Set: N:\CRF3\02082002\I937100.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application Number

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1

L:113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1

L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2

L:529 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27

L:553 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28

L:577 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29

L:601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30

L:625 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31

L:649 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32

L:673 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33

L:697 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34

L:721 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35

L:745 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36

L:1038 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58

L:1039 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58

L:1042 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58

L:1043 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58

L:1112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59

L:1116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59

L:1136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60

L:1163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61

L:1164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61

L:1258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62

L:1282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63

L:1374 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64

L:1375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64

L:1493 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65

L:1560 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:1710 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67

L:1711 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67

L:1714 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67

L:1715 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67

L:1919 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68

L:1923 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68

L:2044 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69

L:2046 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69